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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/795,953	03/08/2004	German Lakov	031383-9107-00	1415
23409	7590	12/05/2005	EXAMINER	
MICHAEL BEST & FRIEDRICH, LLP 100 E WISCONSIN AVENUE MILWAUKEE, WI 53202			GONZALEZ, JULIO C	
			ART UNIT	PAPER NUMBER
			2834	

DATE MAILED: 12/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/795,953

Applicant(s)

LAKOV ET AL.

Examiner

Julio C. Gonzalez

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 November 2005.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-6 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 08 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6/04 + 10/04

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I (claims 1-6) in the reply filed on 11/16/05 is acknowledged.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lauw (US 5,028,804) in view of Curtiss et al (US 4,417,194).

Lauw discloses an engine control system, a grid 34, an engine 36 driving a generator 50, a set point 108 for the engine, sensors 82, 84 for measuring a parameter between the grid 34 and the engine 36 (see figure 1) and controller 110, 86. Also, it is disclosed that the control system controls the engine power (column 35, line 25-29; column 37, lines 30-55).

However, Lauw does not show explicitly using a load in the system.

On the other hand, Curtiss et al discloses for the purpose of providing a power system with improved power factor correction, an engine 24 driving generator 12 and outputs connected to grid and load 18 (see figure 1).

Moreover, a current sensor detects a current via line 35b, which sends signal to controllers 36, 34, 30 (see figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a system as disclosed by Lauw and to connect a grid and a load to a generator for the purpose of providing a power system with an improved power factor correction as disclosed by Curtiss et al.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lauw and Curtiss et al as applied to claim 1 above, and further in view of Kumar (US 5,998,880).

The combined system discloses all of the elements above. However, the combined system does not disclose using a synchronous generator.

On the other hand, Kumar discloses for the purpose of minimizing the difference between a commanded power and a computed power, an engine 11 driving a synchronous generator 12 (see abstract and figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined system as disclosed above and to use a synchronous generator for the purpose of minimizing the difference between a commanded power and a computed power as disclosed by Kumar.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lauw and Curtiss et al as applied to claim 3 above, and further in view of Sinha et al (US 6,281,595).

The combined system discloses all of the elements above. However, the combined system does not disclose that the current has a plurality of directions.

On the other hand, Sinha et al discloses for the purpose of providing an inexpensive power generation system, an engine 12 driving a generator 14, a load 16, grid 44 and a bus in which the current flows in two directions (see figures 2, 3).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined system as disclosed above and to have a current flow in multiple directions for the purpose of providing an inexpensive power generation system as disclosed by Sinha et al.

6. Claims 5, 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lauw and Curtiss et al as applied to claim 3 above, and further in view of Ordinary Skill in the Art.

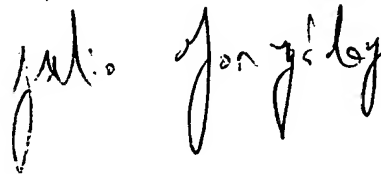
The Prior Art discloses the claimed invention except for the amperage of current flow. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a current flow above 100 amps and 500 amps, since it has been held that discovering the optimum value of result effective variable involves only routine skill in the art. *In re Boesch*, 617 F. 2d 272, 205 USPQ 215 (CCPA 1980).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is 571-272-2024. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Julio Gonzalez". The signature is written in a cursive, flowing style.

Julio C. Gonzalez
Examiner
Art Unit 2834

Jcg

November 28, 2005